

CHALLENGES

Coffee capsules face the same challenges as many large scale productions: their geometry has to be perfect for purpose. Coffee capsules benefit from a precise and consistent form for **profitable and efficient manufacture and storage**, and to **guarantee a reliable and satisfying user experience**.

SOLUTION

METRIX GEO is a solution for the control of shapes and dimensions. It is adapted to coffee capsules, and is equipped with:

- Tactile sensors across 12 control points covering height, thickness, diameter and ovalisation, with a $\pm 5 \mu\text{m}$ measurement uncertainty
- Automated loading, unloading and sorting of the capsules, up to 300 per hour
- Software for recording the control data and assigning them to the controlled capsule

The solution controls any type of matt or glossy surface, regardless of its color.

BENEFITS

Solution's profitability

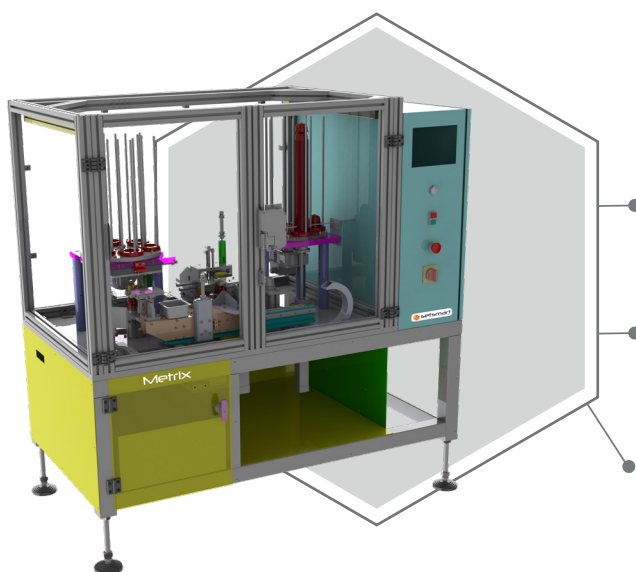
The control solution is online.

- 10 times faster than manual control
- Operates 8 hours a day, 51 weeks a year
- Investment was profitable after six months

Control reliability

- Improved product compliancy meant less customer returns
- Measurements traceability for each controlled part
- Repeatable measurements, independent of the operator's skill and attention level

METRIX GEO



VERSATILE SHAPE AND GEOMETRY MEASUREMENTS

- of straightness, perpendicularity, parallelism, roundness, coaxiality, concentricity, depths of grooves, etc
- of various types of objects : the number and position of sensors are tailored to the part's design

ACCURATE AND PRECISE CONTROL

based on contact (tactile) transducers, contactless pneumatic transducers or a combination of both

OPTION FOR UNATTENDED OPERATION

with automation, allowing operators to focus on value-added work